ABSTRACT OF THE DISCLOSURE

An optical device includes, in a predetermined section of an optical fiber, a first functional part having a plurality of Faraday crystal columns that are parallel to each other and almost penetrating perpendicular to an optical axis of an optical fiber through a core thereof, and a second functional part having a plurality of holes that are parallel to each other and almost penetrating perpendicular to the optical axis of the optical fiber through the core thereof. A longitudinal direction of the Faraday crystal columns and a longitudinal direction of the holes form an angle of 45 degrees along a plane perpendicular to the optical axis. Thus, the optical device can be realized by only processing the optical fiber.